

## ABSTRACT OF THE DISCLOSURE

A method for radio resource allocation based on planned priority ordering to realize the maximum carrier to interference ratio (C/I) in a cellular system that employs frequency reuse. Reuse of co-channel resources is progressively increased as traffic load increases based on the available spectrum. By using this method, interference rejection at light loading can approach that obtainable by using a low reuse factor. When applied to a wireless packet network, this method allows each resource to carry highest throughput according to the traffic demand and available bandwidth, while making more resources available to carry additional traffic when system loading is increased.